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> Heimerdinger LB176S 1/2" Brushless Cordless Impact Drill Instruction Manual

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Brand: Heimerdinger | Model: LB176S

1. PRODUCT OVERVIEW

The Heimerdinger LB176S is a versatile 1/2" brushless cordless impact drill designed for a wide range of drilling and driving applications. It is compatible with Makita 18V batteries (3.0Ah or higher recommended) and features a powerful brushless motor for efficient performance.

Key features include:

- **High Torque Output:** Up to 150 N.m (1300 In-lb) for demanding tasks.
- **Variable Speed Control:** Two speed settings (0-750 RPM and 0-1350 RPM) for optimal control.
- **20+1 Position Clutch:** Provides precise torque control to prevent stripping screws and for various material applications.
- **1/2" All-Metal Chuck:** Ensures strong bit gripping strength and compatibility with a wide range of accessories (1.5mm-13mm).
- **Built-in LED Work Light:** Illuminates the work area for improved visibility in dark spaces.
- **4D Heat Dissipation System:** Protects the tool during heavy-duty use.



Figure 1: Front view of the Heimerdinger LB176S Impact Drill. This image shows the main body of the drill, including the chuck, torque collar, speed selector, trigger, and battery interface.

2. SAFETY INSTRUCTIONS

Always follow basic safety precautions when using electric tools to reduce the risk of fire, electric shock, and personal injury.

- **Work Area Safety:** Keep your work area clean and well-lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Avoid body contact with earthed or grounded surfaces. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating the tool for extended periods. Dress properly; avoid loose clothing or jewelry. Secure long hair.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.

- **Battery Safety:** Use only battery packs specified by the manufacturer. Ensure the battery is fully seated and locked into place before operation. Do not short-circuit a battery pack. Do not expose battery packs to heat or fire.

3. PRODUCT COMPONENTS AND IDENTIFICATION

Familiarize yourself with the various parts of your Heimerdinger LB176S impact drill for safe and effective operation.



Figure 2: Angled view of the impact drill, highlighting the chuck, torque settings, and speed selector switch. The image provides a clearer view of the control mechanisms.

- **Chuck:** The front part of the drill that holds the drill bit or driver bit. This model features a 1/2" (1.5mm-13mm) all-

metal chuck.

- **Torque Adjustment Collar:** Located behind the chuck, this collar allows you to select from 20 torque settings plus a drill mode.
- **Speed Selector Switch:** Positioned on top of the drill, this switch allows you to select between two speed ranges (Low/High).
- **Forward/Reverse Switch:** Located above the trigger, this switch controls the direction of rotation.
- **Trigger Switch:** Activates the drill and controls the variable speed.
- **LED Work Light:** Integrated light located below the chuck, illuminates the work area when the trigger is pressed.
- **Battery Interface:** The base of the handle where the Makita 18V battery slides in.

4. SETUP

4.1 Battery Installation and Removal

This drill is designed for use with Makita 18V Lithium-Ion batteries (e.g., BL1850B, BL1840B, BL1830B, BL1430B). A battery capacity of 3.0Ah or higher is recommended for optimal performance.

- **Installation:** Align the battery pack with the slot in the drill's handle. Slide the battery into the handle until it clicks securely into place. Ensure it is fully seated.
- **Removal:** Press the battery release button (usually located on the front or sides of the battery pack) and slide the battery out of the handle.

4.2 Installing and Removing Drill Bits/Accessories

The 1/2" all-metal chuck accommodates bits with shanks from 0.06 inches (1.5mm) to 1/2 inch (13mm).

Suitable for various drills

0.06"-1/2" jack, suitable for various lengths
Drill bit, Hole Saws etc.



Figure 3: The drill's chuck shown with various compatible drill bits and accessories, including pagoda shape step drill bits, hole saw blades, screwdriver bits, hex nut bits, and twist drills.

1. **To Install:** Rotate the chuck counter-clockwise until the jaws are open wide enough to insert the bit. Insert the bit fully into the chuck. Rotate the chuck clockwise to tighten the jaws firmly around the bit. Ensure the bit is centered and secure.
2. **To Remove:** Rotate the chuck counter-clockwise to loosen the jaws and pull the bit out.

5. OPERATING INSTRUCTIONS

5.1 Selecting Speed and Torque

- **Speed Selection:** Use the speed selector switch on top of the drill.
 - **Position 1 (Low Speed):** 0-750 RPM, ideal for high-torque applications like driving screws or drilling large holes.
 - **Position 2 (High Speed):** 0-1350 RPM, suitable for fast drilling in softer materials.
- **Torque Adjustment:** Rotate the torque adjustment collar to select the desired torque setting (1-20) or drill mode.
 - **Settings 1-20:** Lower numbers for smaller screws or softer materials; higher numbers for larger screws or harder materials.
 - **Drill Mode (Drill Icon):** For drilling applications, bypasses the clutch for maximum torque.

5.2 Drilling and Driving



Figure 4: The drill demonstrating its capability to turn screws, and drill into wood, tile, and steel. This illustrates the versatility across different materials.

- **Starting the Drill:** Squeeze the trigger switch to start the drill. The speed is variable depending on how far the trigger is pressed.
- **Forward/Reverse:** Push the forward/reverse switch to the left for forward rotation (drilling/driving screws in) and to the right for reverse rotation (removing screws). Center position locks the trigger.
- **Drilling Capacity:**
 - Wood: Up to 1.55 inches (38mm)
 - Concrete/Steel: Up to 1/2 inch (13mm)
- **LED Work Light:** The built-in LED light automatically activates when the trigger is pressed, providing illumination for your work area.



Figure 5: Visual representation of the three primary modes: Hammer, Drill, and Driver, indicating the tool's multi-functionality.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Heimerdinger LB176S impact drill.

- **Cleaning:** After each use, wipe down the tool with a clean, damp cloth. Do not use harsh chemicals or abrasive cleaners. Keep ventilation openings clear of dust and debris.
- **Chuck Maintenance:** Periodically clean the chuck jaws to ensure proper gripping. A small amount of lubricant can be applied to the chuck threads if it becomes stiff.
- **Battery Care:** Store batteries in a cool, dry place away from direct sunlight and extreme temperatures. Do not store fully discharged batteries for extended periods.
- **Storage:** Store the drill in a dry, secure location out of reach of children.

7. TROUBLESHOOTING

Refer to the following table for common issues and their solutions.

Problem	Possible Cause	Solution
Drill does not start.	Battery not installed correctly or discharged. Trigger lock engaged.	Ensure battery is fully seated and charged. Disengage the forward/reverse switch from the center (locked) position.
Reduced power or performance.	Low battery charge. Incorrect speed/torque setting for the task. Overheating.	Recharge battery. Adjust speed and torque settings appropriately. Allow tool to cool down if overheated.
Chuck not holding bit securely.	Bit not inserted fully. Chuck jaws are dirty or worn.	Re-insert bit fully and tighten chuck firmly. Clean chuck jaws. If problem persists, chuck may need replacement.
Battery does not fit well.	Incompatible battery type or slight manufacturing variance.	Ensure you are using a compatible Makita 18V battery. Gently but firmly push the battery until it clicks. If it consistently does not fit, contact support.

8. SPECIFICATIONS

Feature	Specification
Brand	Heimerdinger
Model Number	LB176S
Power Source	Battery Powered (Compatible with Makita 18V)
Voltage	18 Volts (DC)
Maximum Rotational Speed	1350 RPM
No Load Speed	0-750 / 0-1350 RPM
Maximum Torque	150 Newton Meters (1300 Inch Pounds)
Torque Settings	20 + 1 (Drill Mode)
Chuck Size	1/2 Inch (1.5mm - 13mm)
Drilling Capacity (Wood)	1.55 Inches (38mm)
Drilling Capacity (Concrete/Steel)	1/2 Inch (13mm)
Item Weight	3.19 Pounds
Product Dimensions	3.4"L x 3.6"W x 5.6"H
Special Features	Built-In LED Working Light, Cordless, Brushless Motor

9. WARRANTY AND SUPPORT

For any questions, technical assistance, or warranty inquiries regarding your Heimerdinger LB176S Impact Drill, please contact the manufacturer or seller directly.

You can visit the official Heimerdinger store on Amazon for more information and contact options: [Heimerdinger Store](#)

Please retain your proof of purchase for any warranty claims.

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